

Title (en)

PROCESS FOR PRODUCING  $\text{CaCO}_3$  OR  $\text{MgCO}_3$

Title (de)

VERFAHREN ZUR HERSTELLUNG VON  $\text{CaCO}_3$  ODER  $\text{MgCO}_3$

Title (fr)

PROCÉDÉ DE PRÉPARATION DE  $\text{CaCO}_3$  OU  $\text{MgCO}_3$

Publication

**EP 1836127 A1 20070926 (EN)**

Application

**EP 05775949 A 20050707**

Priority

- EP 2005053258 W 20050707
- EP 04103425 A 20040719
- EP 05775949 A 20050707

Abstract (en)

[origin: WO2006008242A1] The present invention relates to a process for producing  $\text{CaCO}_3$  or  $\text{MgCO}_3$  from a feedstock comprising a Ca- or Mg-comprising mixed metal oxide, wherein: (a) an aqueous slurry of the feedstock is contacted with a  $\text{CO}_2$  containing gas to form an aqueous solution of  $\text{Ca}(\text{HCO}_3)_2$  or  $\text{Mg}(\text{HCO}_3)_2$  and a solid Ca- or Mg-depleted feedstock; (b) part or all of the aqueous solution of  $\text{Ca}(\text{HCO}_3)_2$  or  $\text{Mg}(\text{HCO}_3)_2$  is separated from the solid Ca- or Mg-depleted feedstock; (c)  $\text{CaCO}_3$  or  $\text{MgCO}_3$  is precipitated from the separated aqueous solution of  $\text{Ca}(\text{HCO}_3)_2$  or  $\text{Mg}(\text{HCO}_3)_2$ ; and (d) the precipitated  $\text{CaCO}_3$  or  $\text{MgCO}_3$  is recovered as product. The invention further relates to a process for the production of an aqueous solution of  $\text{Ca}(\text{HCO}_3)_2$  or  $\text{Mg}(\text{HCO}_3)_2$ .

IPC 8 full level

**C01B 32/60** (2017.01); **C01F 5/24** (2006.01); **C01F 11/18** (2006.01)

CPC (source: EP US)

**C01F 5/24** (2013.01 - EP US); **C01F 11/181** (2013.01 - EP US); **C01P 2006/60** (2013.01 - EP US)

Citation (search report)

See references of WO 2006008242A1

Cited by

WO2010097449A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2006008242 A1 20060126**; CN 1989073 A 20070627; CN 1989073 B 20110330; EP 1836127 A1 20070926; RU 2007105895 A 20080827; RU 2389687 C2 20100520; US 2007202032 A1 20070830

DOCDB simple family (application)

**EP 2005053258 W 20050707**; CN 200580024359 A 20050707; EP 05775949 A 20050707; RU 2007105895 A 20050707; US 63266805 A 20050707